



Federal Identity Credentialing Committee

December 18, 2003





Agenda

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|---|---|-----------------------------|
| • Welcome/Opening Remarks | - | Jeanette Thornton |
| • Introduction | - | Judith Spencer |
| • Federal Smart Card IAB | - | Bill Holcombe |
| • Federal PKI Policy Authority | - | Michelle Moldenhauer |
| • Smart Card Policy Working Group | - | Bill Holcombe |
| • Identity Assurance Working Group | - | Mark White |
| • PKI Certificate Policy Working Group | - | Tim Polk |
| • Physical Access Interagency Interop | - | Mike Sulak |
| • SC Data Modeling Working Group | - | Jim Zok |
| • SC Topology Working Group | - | Jack Finberg |
| • Aggregated Buy | - | Bill Holcombe |
| • Shared Service Providers WG | - | Fred Catoe |
| • Closing Comments | - | Judith Spencer |

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Federal Smart Card Interagency Advisory Board

Bill Holcombe
GSA

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Interagency Advisory Board

- History
- Accomplishments
- Membership
- Current Projects

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History

- Working group out of SCPMG(1997) – 1st group met in 1998, Established formally early in 2001, chaired by GSA/FTS
- Founding Members: GSA, DOD, State
also Treasury, FDA, DOJ, FAA, VA, USPS, NSA
- Original Goals
 - Oversee GSA smart access ID contract
 - Coordinate development of GSC-IS

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Accomplishments

- Brought together broad-based interagency group to solve smart card problems
- Provided leadership for development of GSA smart card contract
- Led development of smart card standard – Government Smart Card Interoperability Specification

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Membership

- Meets monthly, open to all interested parties, govt & industry
- Currently over 100 members
- Examples of agencies participating: DOD, FAA, GSA, State, DOI, DOJ, IRS, DHS, DOT, VA, NIST, US COURTS, FMS, USDA, NASA, FDIC, USSS, FDA, TSA, WMATA, MARAD,

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IAB Identified Projects

- Policy Working Group – Bill Holcombe
- Data Modeling Group – Jim Zok
- PAIIWG (Physical Access Interagency Interoperability) – Mike Sulak
- Topology Group – Jack Finberg
- Aggregated Buy – Bob Donelson
- Architecture Group – Jim Dray
- Education Group – Bill Holcombe & Bob Donelson

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Questions?

Bob Donelson, Chair
bdonelso@wo.blm.gov
202 452-5190

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Federal PKI Policy Authority

Michelle Moldenhauer
U.S. Treasury



PKI PA/FBCA Completed Goals

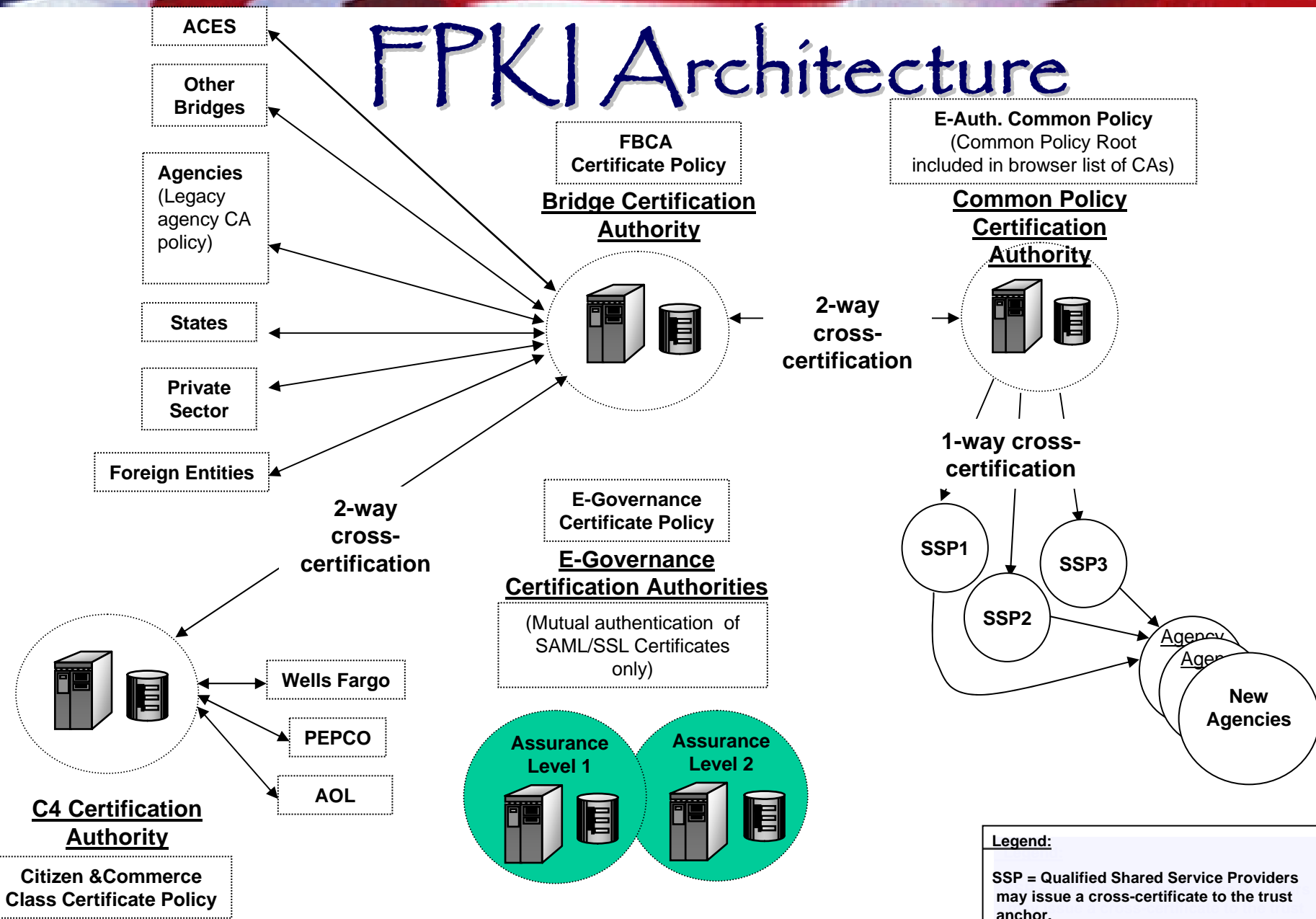
- Approval To Operate - May 2002
 - LDAP directory for non-X.500 customers - October 2003
 - Technical interoperability testing January 2002 – December 2003
-
- Department of Defense (X-certified)
 - U.S. Department of Agriculture/National Finance Center (X-certified)
 - National Aeronautics and Space Administration (X-certified)
 - Department of Treasury (X-certified)
-
- Department of Energy (X-cert to be issued)
 - U.S. Department of State (X-cert to be issued)
 - State of Illinois (X-cert to be issued)
 - Government of Canada (X-cert to be issued)
 - ACES/Digital Signature Trust (X-cert to be issued)



PKIPA/FBCA Current Goals

- Architecture Stability - [March 2004](#)
- Full Authority to Operate FBCA - [June 2004](#)
- FBCA-aware Applications & Industry Requirements - [February 2004](#)
- Technical Cross-Certification Certificates Issued - [Jan - Dec 2004](#)
 - Department of Labor (application completed)
 - ACES/Operational Research Consultants, Inc. (not started)
 - ACES/AT&T (not started)
 - US Patent & Trademark Office (scheduling)
 - Higher Education Bridge CA (in testing)
 - Aerospace Bridge (discussion)
- Integration with E-Authentication (in progress)
- Operation via Commercial Managed Service - [January 2006](#)

FPKI Architecture

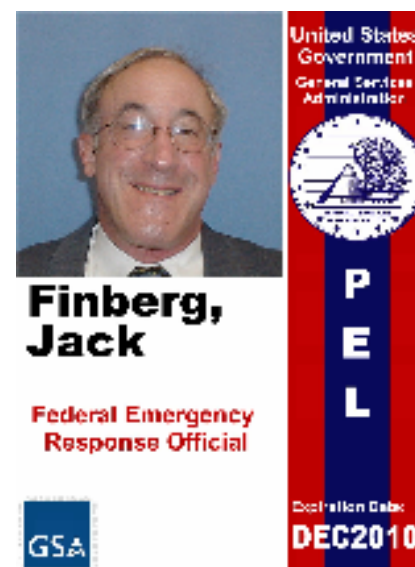


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Smart Card Policy Working Group

Bill Holcombe
GSA

Credentialing / Smart Card Policy - What It Means



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Credentialing/Smart Card Policy Issuance at Highest Level – What Does it Do?

- Calls for establishment of interoperable smart card platform for credentialing employees and trusted agents of Gov
- Enables physical access & logical access & other applications
- Provides appropriate technical platform for coherent governmentwide credentialing and identification program

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The Common Credential – The Federal Identity Card

- Standards-based machine-readable chip card
- Principal Capabilities
 - Carry PKI-based certificates
 - Carry multiple biometrics
 - Post-issuance loading of applications/data
 - Highly tamper & counterfeit resistant
 - Works with legacy systems
 - Technical interoperability across government
 - Works in contact or contactless mode

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Implementation

- At agency / bureau level
- Funded through regular budget process
- Assistance available through
 - Interagency Advisory Board
 - GSA contracts with prime vendors
 - Project Managers Group
 - www.smart.gov web site

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Policy Requirements - 1

- Issue Federal Identity Card
- Plan for identity and credentialing investments
- Allow non-repudiation of transactions
- Eliminate inconsistent approaches to physical and computer security
- Enable cross-agency physical access
- Migration path to incorporating logical access

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Policy Requirements - 2

- Provide infrastructure as physical and logical networks come up for replacement
- Platform of choice will be smart card -based
- Compliant with GSC-IS
- Adopt standards that enable interoperability across Federal enterprise
- Prefer virtual machine platform using ISO 7816 and Global Platform specifications
- Use authentication methods beyond passwords

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Policy Requirements - 3

- Ensure privacy
- Plan recognizing total cost of access infrastructure
- Converge disparate identity media to common smart card based credential
- Provide flexibility to meet agency needs until legacy systems are upgraded
- Identity data on card must be in standard machine-readable format and use active asymmetric key based authentication
- Card and chip must be tamper and counterfeit resistant

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Policy Requirements - 4

- Support multiple authentication methods, e.g., password, digital certificate, biometric
- Support automated processing and auditability
- Capable of carrying digital certificate meeting requirements of Federal Bridge model and FIPS 140-2
- Certificates should be able to sign and encrypt sensitive e-mail
- Support secure post-issuance updating of data
- Card life should be 5 years

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Policy Requirements - 5

- Use common data models specified in GSC-IS, with mandatory card capability container
- Meet requirements of NIST Security Guidance Policy
- Must support biometrics

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Issues?



FICC-IAB Policy Committee Agency Lead Members

- Bill Holcombe GSA
- Jim Zok Transportation
- Bob Donelson Interior
- Mike Butler Defense
- Teresa Schwarzhoff NIST
- Thomas Casey DHS

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Identity Assurance Working Group

Mark White
OPM

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Identity Assurance Questions

- What is the core information required to establish reliable identity & how will it be formatted and used?
- What is the optimum process to issuing a Government credential?



PKI Certificate Policy Working Group

Tim Polk
NIST

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Participants

- Co-chaired by GSA and NIST
 - John Cornell (GSA), Tim Polk (NIST)
- Agencies that have FPKI PA membership are the “voting” members
- FBCA Operational Authority also participates
- Booz Allen Hamilton provides support

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Scope of Activities

- Maintain FPKI PA certificate policies
- Perform Policy Mapping
- Review Compliance Audits

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Maintain FPKIPA certificate policies

- Federal Bridge CA Policies
 - Four policies for different levels of assurance
- Common Policy Suite
 - Three policies for HW users, SW users, devices
- Citizen & Commerce Class CP (aka C4)
 - PKI-lite for cross-certification with schools, businesses, etc.

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Perform Policy Mapping

- Map CPs to the FBCA and C4 policies
 - Review external agency/organization CP against a CPWG-developed matrix of requirements
 - Matrix is specific to the level of assurance that was chosen as a target for mapping

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Review Compliance Audits

- For all PKIs
 - CP and CPS are consistent
 - PKI is operating in accordance with its CPS
 - Auditor is qualified *and* independent
- For the Common Policy
 - Developing a framework to guide CP-CPS consistency evaluation


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Contacts

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Tim.Polk@nist.gov

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Physical Access Interagency Interoperability Working Group PAIWG

Mike Sulak
Department of State

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PAIIWG

- Merged Physical Access Interoperability Working Group (PAIWG) with Interagency Interoperability Task Force (IITF).
- Chairmanship passed from Donelson to Sulak at 8-26-03 PAIWG/IAB.
- Name changed to PAIIWG at 9-11-03 meeting.
- PAIIWG opened to industry partners.

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PAIWG

- Two outstanding issues:
 - SEIWG card coding, 25/40 bytes
 - Card Authentication
- Sub-group formed
- Webex held 10-01-03 with sub-group members to discuss available options.
- Sub-group consensus, stay with 25 byte packed BCD.
- IAB, on 10-24-03, approves 25 byte coding.

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PAIIWG

- Webex held 11-17-03 with sub-group members to discuss available card authentication options.
 - Two tier approach presented, no consensus.
- Webex held 11-18-03 with PAIIWG membership to discuss additional card authentication option.
 - Three tier approach presented, consensus formed.

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PAIIWG

- “INSIDE ID” conference, 12-08-03, PAIIWG industry day.
 - Three tier card authentication approach presented to industry partners.
 - Consensus positive.
- IAB to vote at next meeting.

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PAIWG

- Continue to address both contact and contactless interoperability issues.
- Update the Smart Card Implementation Guidance document.
- Support the FICC and IAB in their development of smart card interagency interoperability policy.

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PAIWG

Questions?

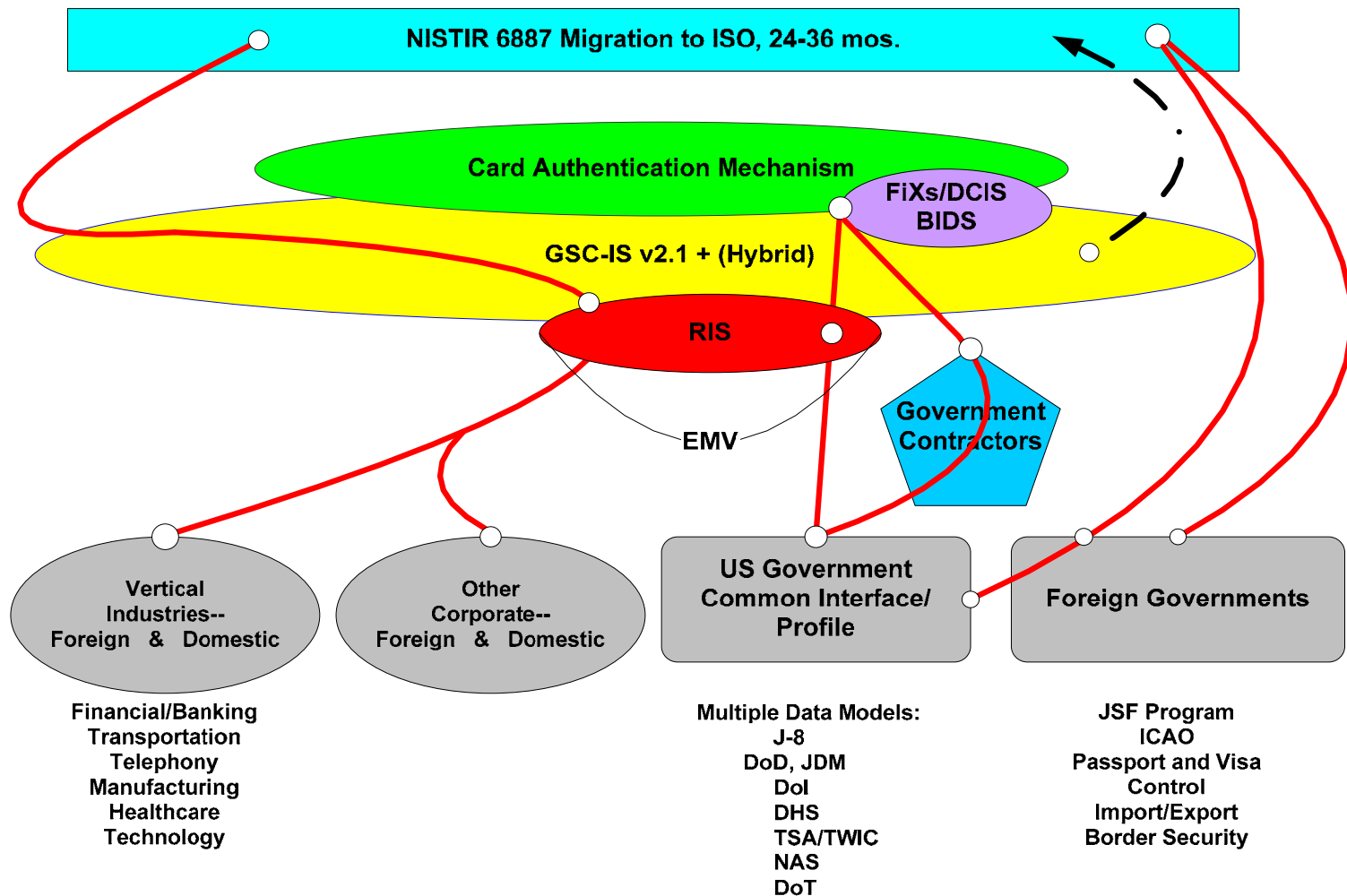
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Smart Card Data Modeling Working Group

Jim Zok
MARAD

Identity Intersections

Identity Intersections



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GSC Data Model Issues

Jim Dray, NIST
Dec 4, 2003



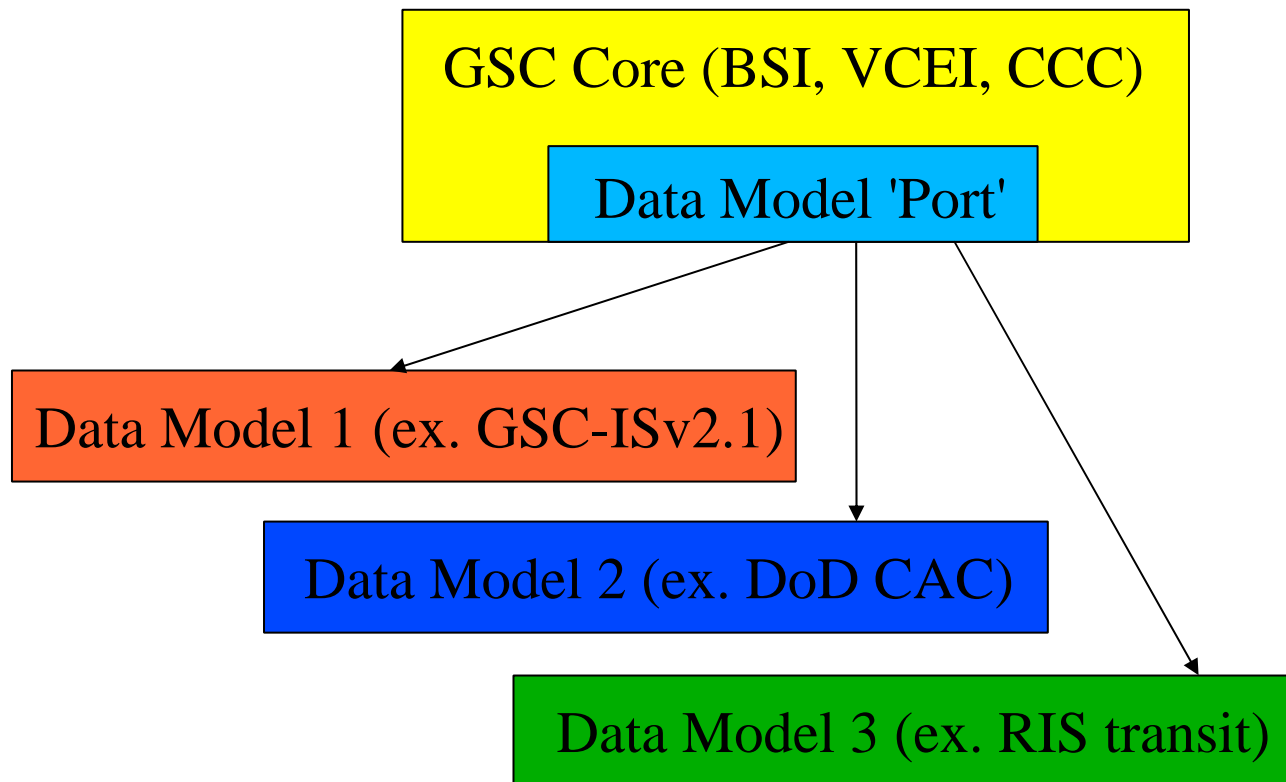
Credential Domains

Cardholder Unique ID String(CHUID)

Qualifications Credentials (Medical License, etc.)

Data Model (Demographic info, etc.)

GSC Pluggable Data Models





CHUID DATA MODEL

Access Control File/Buffer SEIWG File/Buffer		EF 3000 Always Read EF 0007 Always Read	
DATA ELEMENT	TAG	TYPE	MAX. BYTES
SEIWG	30	Fixed	25
Agency Code	TBD	Fixed	4
System Code	TBD	Fixed	4
Credential Number	TBD	Fixed	6
Credential Series	TBD	Fixed	1
Individual Credential Issue	TBD	Fixed	1
DUNS	TBD	Fixed	9
Cage Code	TBD	Fixed	5
Person Identifier	TBD	Fixed	10
Org. Data (See OC, OI, POA above)	TBD	Fixed	6
Managed MAC List	TBD	Variable	TBD
Unmanaged MAC FID	TBD	Fixed	4
Secure MAC FID	TBD	Fixed	4
Error Detection Code	FE	LRC	1



Smart Card Topology Working Group

Jack Finberg
GSA

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Smart Card Aggregated Buy

Bill Holcombe
GSA

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Smart Card Aggregated Buy

- Bob Donelson coordinating
- Several agencies have agreed to participate – March buy
- Received full GSC-IS marketplace cards for testing
- Important new partner – NY\NJ Transit Auth – will help bring down cost of cards

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PKI Shared Service Providers

Fred Catoe
Department of Veteran Affairs

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SSP Timeline

- December 2003
 - Define Requirements
 - Identify Evaluation Criteria
- January 2004
 - Publish Open Solicitation
- February 2004
 - Evaluate Provider Responses
- March 2004
 - Initial Selection of Providers

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Policies and Requirements

- Required Policies:
 - Federal Common Policy
 - Certificate & CRL Profile
 - Smart Card Policy
 - Identity Assurance Policy
- Requirements Defined:
 - Directory Services
 - Registration Authority Agreement
 - Repository & Archive Services
 - Security Requirements

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Evaluation Criteria

- Policies and requirements will serve as evaluation criteria
- Screening elements
 - Compliance audit
 - Operational Capabilities Demonstration
 - Agency specific contracting requirements

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Open Solicitation

- Notice of intent
 - Preliminary draft completed
- Solicitation
 - Currently being drafted
- Registration Authority Agreement
 - Agreement required between each Federal agency and their Shared Service provider
 - Template criteria defined
 - Standard template due by end of January

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Provider Evaluation

- Operational Capabilities Demonstration participants
 - PKI Certificate Policy Working Group
 - Shared Service Provider Subcommittee
- Mandatory Evaluation Criteria
 - Compliance audit
 - Operational Capabilities Demonstration
 - Existing NIST reference process for FBCA
 - Additional criteria derived from SSP Subcommittee inputs
- Performance Evaluation Period
 - Starts February 2004, continuously open

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Closing Remarks

Judith Spencer
Chair, FICC

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3 Major Subcomponents

- Smart Card Interoperability
 - Federal Smart Card Policy
 - Government Smart Card Interoperability Specification v. 2.1
 - Minimum requirements for topology, data sets, implementation
 - Aggregated Buy
- PKI Interoperability
 - Common Federal PKI Policy
 - Federal Bridge Certification Authority
 - Shared Services Migration
- Identity Assurance Interoperability
 - Guidance on minimum standards for identity assurance in credential issuance

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For More Information:

Visit our Website
www.cio.gov/ficc

Currently available

Draft Framework

Charter

Information on meetings

Coming Soon

Draft Roadmap

Policy Documents

and more